

PHENIX WEEKLY PLANNING

6/26/2008 Don Lynch



Shutdown '08 Schedule

Design & Safety Review Action Items:

Mu Trigger

RPC Prototype Installation

New Beampipe

CM Crane

Sta. 1 and MMN Scaffolding

RPC Factory:

Prototype C tests

Prototype D Tests

Dark Current test stand

Mu Trigger FEE upgrade:

Station 2/3 scaffolding

Station 1 scaffolding

Rack components (N&S)

Rack assembly

LV cable prep

N&S platforms Fabricate & install

Platform review (Pearson)

In progress

Waiting for Funding

Waiting for Vendor response

Inspect after Complete (Pearson)

in progress

gaps & module frames received

in design

complete, needs inspection

in progress finish by 6/27

on order

in progress finish by 7/11

in progress finish by 7/15

fabrication in progress, install by

8/15 (Pearson)



Shutdown '08 Schedule

Mu Trigger FEE Upgrade (cont'd):		
Prep work for platforms (water/elec)	in progress finish by 7/15	
FEE installation N&S sta's. 1,2 & 3	Aug-Sep	
FEE water and dry air installation	Aug-Sep	
Optical cable prep	July	
LV cable installation	July-Aug	
optical cable installation	July- Aug	
Rack (N&S) installation	July 15+	
Install FEE's in MMS for RPC test	Sep.	
Install FEE South platform	Sep.	
Install S rack cooling & electric	Oct.	
Rack room electronics, etc.	Sep Oct.	
Final rack utilities	SepOct	
Testing	SepNov.	
RPC engineering & safety review	July 10&11	
RPC proptotype installation:		
Prep work	complete by July 31	
move (7) MuID pipes		
move gap 5 south cable tray		
Rack prep	Complete by Aug 29	
RPC prototype gas system	July - Aug	



Shutdown '08 Schedule, cont'd

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RPC proptotype installation (cont'd):
          Move shielding for installation
                                                   July - Sep
                                                   July - Aug
          RPC prototype cable routing & support
          Modify crystal palace & vapor barrier
                                                   July - Aug
          RPC prototype install
                                                   Sep. - Oct.
          (RPC2 - PHENIX) (RPC3 - C. Pearson)
                                                   Sep. - Oct.
          Install rack in tunnel south
                                                   Sep.
          Replace tunnel shielding
                                                   Nov. (C. Pearson)
          Connect electronics/gas
                                                   Sep. - Nov.
MuTr Decapacitations (Sta. 1 N and MMN)
                                                   July - Sep
Fan Tray maintenance
                                                   in progress (on going fill-in)
HBD Install
                                                   Sep.-Oct.
PC1 west work (needs planning)
                                                   Sep. - Nov.
CM Crane Install
                                                   Oct.
DC East?/West Repairs
                                                   Oct. - Nov.
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Shutdown '08 Schedule, cont'd

Remove all inst'n equipment(e.g. scaffolds)

Gap 5 north piping and cable tray re-loc.

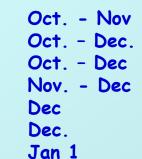
Gap 2 north cable tray & crate re-mounts

Prep for shutdown 2009

Prep for run 9

Close shield wall start shifts

Start physics



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Shutdown '08 Electrician Work

- 1) Run Power to new MuTrgr FEE racks on MMN and MMS Final design of the reworked North Muon Power Distribution System is set. Nearly all material acquired eithout cost. Paul is m revising the One-Line electrical drawing. CAD approval required...maybe by next week. Effort should take ~ 1 week. Then the new MuTrigger North power cable can be installed to the rack location, preferably after the rack platform is installed... The power for the South Trigger Rack(s) to be taken from an existing (spare) breaker in the Muon Tracker power panel. This should take less than 1 day to install.
- 2) Install <u>power</u> and <u>signal</u> cable tray (ceiling suspended) for new DCM rack row north of existing DCM racks. on Hold until new floor plan is determined
- 3) Install power feeds to RPC north & south tunnel racks from IR power panels. Plan is to run the cables from the IR to the North tunnel rack locations. The south RPC rack power can be taken from the existing (spare) breakers in the SMI power panel located on the IR south west wall. These cable runs may take a few days to complete due to new power tray runs required into the tunnel areas.
- 4) Assist in signal and LV cable installation for MuTr/RPC upgrades as necessary.
- 5) Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.
 - This job is on hold. No new racks in CM this year.
- 6) Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).



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MuTrigger FEE LV Cable and Racm Prep in progress







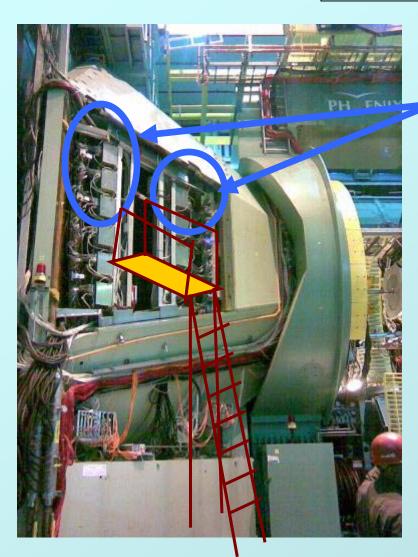
MuTrigger FEE Rack Utilities



Need to install
Tee's on supply and
return lines: both
s/b \(\frac{3}{4}\) to supply Mu
Trigger North
rack and future
rack



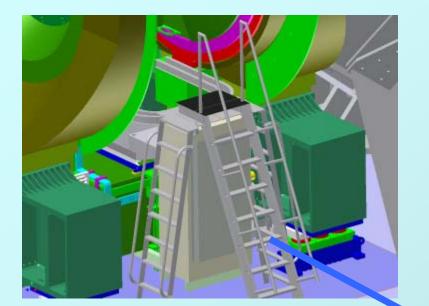
MuTrigger FEE upgrades in MMS in support of RPC prototypes



To match absorber and prototype RPC's, we need to install new FEE upgrades in these 5 MuTR FEE's

We will develop a plan to access these for installation and testing from a custom work platform (to be designed).





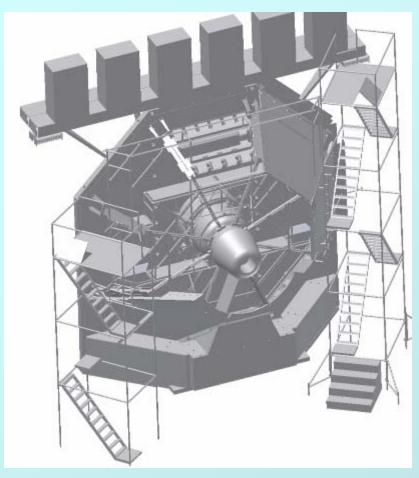
Nothing new this week.

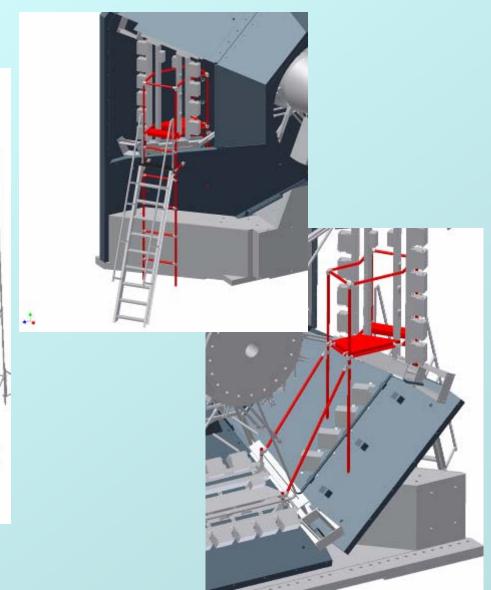
Main stairs have been drafted into Station 1 scaffolding



MMS Scaffolding & Access for This year FEE's in MMS









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RPC Factory Support



Gap/Module Storage shelves/Humidifier

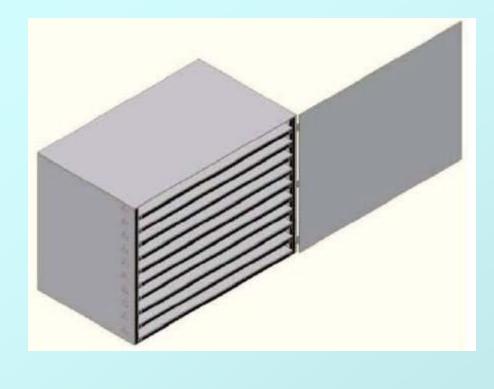


Prototype D Module Gaps being prepared for test



Technical Support 2008

RPC Factory Support, cont.



Dark Current Test Stand

Specs:

Chamber gas flow (?)

HV supply 10,000 V

Hold time 72 hrs

10 shelves each to hold a 76" x 50" (approx. max.) Gap module.

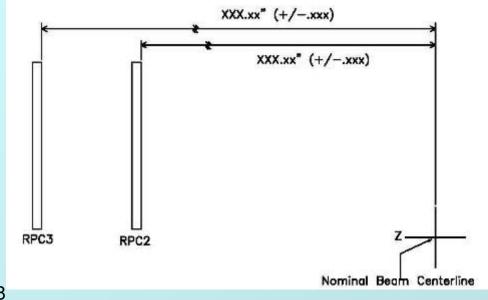
Trip points <20 μ A

Current <1 µA

Shelf surface: flat and

non-conductive

XXX.xx** (+/-.xxx) Nominal Beam Ceriterline



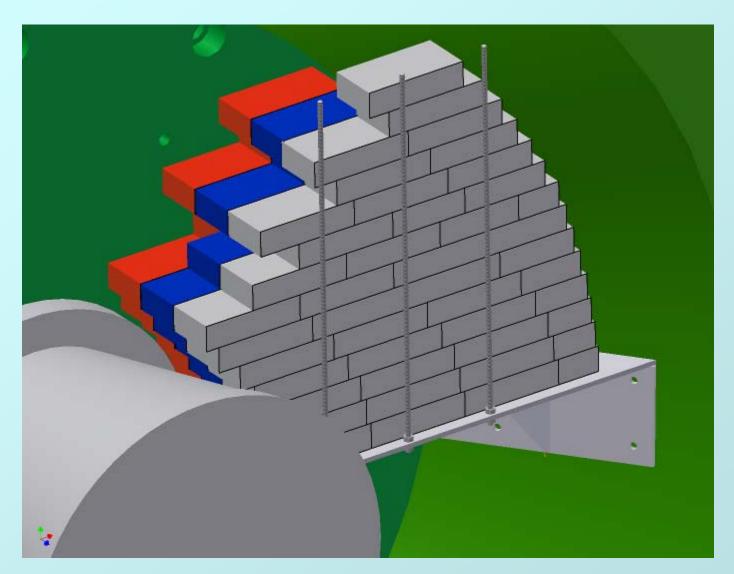
RPC Prototype Installation

RPC Prototype
Installation dimensions
needed:

- 1. Coarse dimensions to external structure faces for initial installation
- 2. Precise dimensions to external survey markers (to be applied during assembly by BNL surveyors to allow precision alignment adjustments with BNL survey in tunnel.
- 3. (Note: Final RPC's should include assembly fixturing for precision location of external survey markers.)



RPC Absorber Concept



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	Technical Support 2008			

July 10

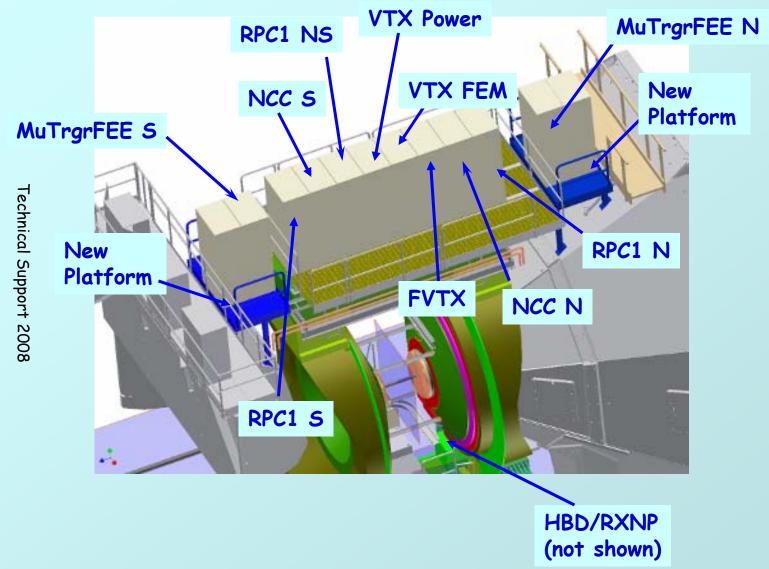
Proposed Agenda for RPC Review July 10,11

ENIX	•					
	8:3012:30 and	Engineering Review of Mu	Trigger RPCs: Fabrication	on, Installation		
		Integration: 1008 Conference	ence Room	oom		
	8:30-8:45	Overview				
	8:45-9:15	RPC Design	Ralf Seidl	RBRC		
	9:15—10:25	RPC Installation	Larry Bartoszek	UIUC		
	10:25—10:45	RPC Assembly	Rusty Towell	Abilene		
	10:45-11:15	Coffee and Discussion	· ·			
	11:15—11:30	Bakelite Procurement	Ken Barish	Riverside		
	11:30-11:50	RPC Gap Production	Kyong Sei Lee	Korea		
•	11:50-12:10	RPC Box Hardware	Xiaomei Li	CIAE		
	12:10-12:30	RPC Q&A	Young Jin Kim	UIUC		
	12:30—1:30	Lunch	_			
	1:303:00	MuTrigger RPC Safety Review Presenters: Steve Boose, Rob Pisani, Paul Gianotti				
		CA-D Experiment Safety	CA-D Experiment Safety Committee			
	3:00—3:30	Coffee and Discussion				
	3:30-3:50	RPC FEE	Cheng-Yi Chi	Columbia		
	3:50-4:10	Trigger Electronics	John Lajoie	ISU		
	4:10-5:00	Schedule	Matthias Perdekamp IUC			
	5:00—5:50	Budget & Manpower	John Hill	ISU		
	July 11					
	9:00—12:00	Follow Up Engineering Issu	Follow Up Engineering Issues: 1008 Conference Room			
	9:00—12:00	Follow Up Cost, Schedule				
6/26/	08					
				16		

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Detector upgrade Rack allotments

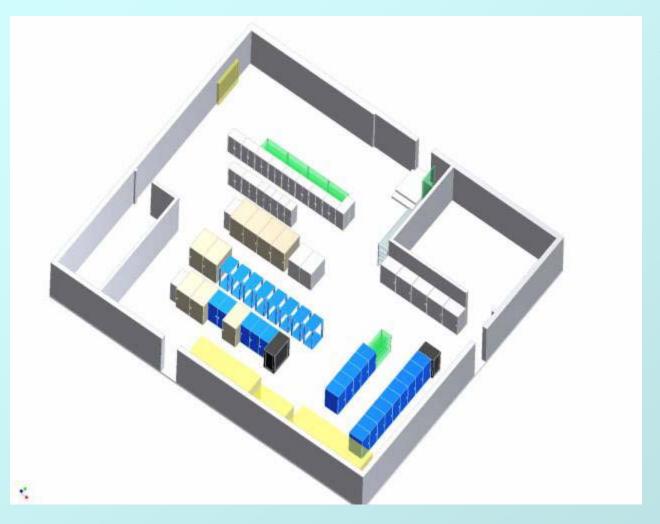


6/26/08





Rack Room Reorganization



Inventor model in progress

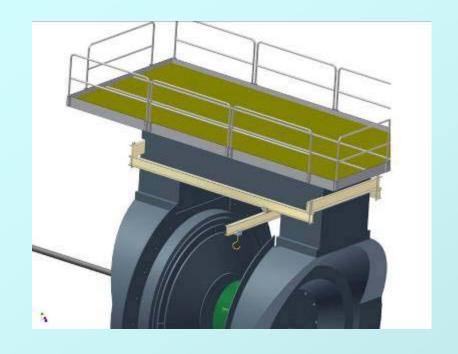




Fan Tray Maintenance in progress







Response from Vendor (The Bartholomew Co. local distributor for GORBEL) received.
Sent to CA safety for review.

CM Crane procurement postponed Until FY09



Safety, Security, etc.

- 1. ISO 14001 and 18001 review passed.
- 2. CAD Safety modified confined space requirements for NMM access: above removed lampshades: no confined space requirements. Below this level confined space training is required. 2 person rule always applies.
- 3. Laura Biscemi form HP surveyed north and south tunnels for RPC installation. A pathis to be established for working where TLD's will not be required during shutdown. During run maintenance periods all tunnel areas will still require TLD's and Rad worker 1 training.
- 4. Training updates for PHENIX technical staff. Required RW training removed from some. Other Required changed to optional.

Everyone up to date on JTA's except Carter (Haz Waste) & Paul (Contracts, CPR & Haz Com)

Most up to date on Required Courses. If RW is Required please take before start of next run.

Questions - see me.





Where To Find PHENIX Engineering Info







No Planning Meeting next week due to 4th of July Holidays

Those taking Vacaton Days: Enjoy!!



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm